ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/99 Date Received: 06/03/99

Project: Metro Self Monitor, PO# M62052

Date Samples Extracted: 06/11/99 Date Extracts Analyzed: 06/11/99

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID		<u>Chromium</u>	Copper	<u>Nickel</u>	Zinc
M62052		0.48	0.36	0.34	0.06
Method Blan	ık	< 0.05	< 0.05	< 0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/99 Date Received: 06/03/99

Project: Metro Self Monitor, PO# M62052

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 905140-01 (Duplicate)

				Relative	
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.24	0.24	0	0-20
Copper	mg/L (ppm)	0.25	0.24	4	0-20
Nickel	mg/L (ppm)	0.29	0.30	3	0-20
Zinc	mg/L (ppm)	0.08	0.09	12	0-20

Laboratory Code: 905140-01 (Matrix Spike)

	Analyte	Reporting Units	Spike Level	Sample Result	% Recove	ery %	Recovery MSD	Acceptance Criteria	m RPD
Ō	Chromium	mg/L (ppm)	5	0.24	95		93	80-120	2
	Copper	mg/L (ppm)	5	0.25	98		95	80-120	3
	Nickel	mg/L (ppm)	10	0.29	98		98	80-120	0
	Zinc	mg/L (ppm)	5	0.08	99		99	80-120	0

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ry % Recove	rv Acceptance		
Analyte	Units	Level	LCS	LCSD	Criteria	RPD	1
Chromium	mg/L (ppm)	5	102	103	80-120	1	
Copper	mg/L (ppm)	5	95	101	80-120	6	
Nickel	mg/L (ppm)	10	104	103	80-120	1	
Zinc	mg/L (ppm)	5	96	100	80-120	4	

3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 14, 1999

DUPLICATE COPY

INVOICE #99ACU0614-2

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M62052: Results of testing requested by Gerry Thompson for material submitted on June 3, 1999.

1 water sample analyzed for Chromium, Copper, Nickel, and Zinc using Method 6010 @ \$80 per sample \$80.00

Amount Due \$80.00

FEDERAL TAX ID(b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 14, 1999

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on June 3, 1999 from your Metro Self Monitor, PO# M62052 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Marti Project Manager

Enclosures ACU0614R.DOC